

**What is claimed is:**

1. A refrigerant filler casing structure having a main body, a high pressure connector, a low pressure connector, and a refrigerant connector disposed at the bottom of said main body and individually coupled to a refrigerant duct, and said refrigerant duct being interconnected in a three-way connection and having a vacuum connector at its front end, a high pressure knob, a low pressure knob, and a transparent cover member installed on the front side of said main body, and a high pressure gauge and a low pressure gauge installed at the top side of said main body, and said casing structure comprising:  
a container, having a pressure gauge accommodating groove, a main body accommodating groove, a connector accommodating groove, and a duct accommodating groove sequentially disposed therein; a closed panel on the surface corresponding to said duct accommodating groove; and said main body accommodating groove being used for mounting said main body; said high pressure gauge and low pressure gauge being disposed in said pressure gauge accommodating groove; said high pressure connector, low pressure connector, refrigerant connector, and vacuum connector being disposed in said connector accommodating groove; and said refrigerant duct substantially in a coiled condition being disposed in said duct accommodating

groove.

2. The refrigerant filler casing structure of claim 1 further comprising a lid with one side movably coupled to one side of said container.
- 5 3. The refrigerant filler casing structure of claim 2, wherein said lid covers said duct accommodating groove when said lid covers said container.
4. The refrigerant filler casing structure of claim 3, wherein said lid comprises an opening disposed at the bottom of  
10 said lid for passing said refrigerant duct through during the operation.
5. The refrigerant filler casing structure of claim 1, wherein said container at its bottom comprises at least two threaded holes and said body of said refrigerant filler comprises two  
15 through holes for passing two screw members through said through holes of said main body and latching into said threaded holes to secure said refrigerant filler into said main body accommodating groove.
6. The refrigerant filler casing structure of claim 1, wherein  
20 said container comprises a handle disposed on the outer side adjacent to said pressure gauge accommodating groove and said main body accommodating groove.
7. The refrigerant filler casing structure of claim 1, wherein said container at its top comprises a groove opening for  
25 passing a hanging hook of said refrigerant filler.

8. A refrigerant filler casing structure having a main body, a high pressure connector, a low pressure connector, and a refrigerant connector disposed at the bottom of said main body and individually coupled to a refrigerant duct, and said refrigerant duct being interconnected in a three-way connection and having a vacuum connector at its front end, a high pressure knob, a low pressure knob, and a transparent cover member installed on the front side of said main body, and a high pressure gauge and a low pressure gauge installed at the top side of said main body, and said casing structure comprising:

a container, having a pressure gauge accommodating groove, a main body accommodating groove, a connector accommodating groove, and a duct accommodating groove sequentially disposed therein; said main body accommodating groove being used for mounting said main body; said high pressure gauge and low pressure gauge being disposed in said pressure gauge accommodating groove; said high pressure connector, low pressure connector, refrigerant connector, and vacuum connector being disposed in said connector accommodating groove; and said refrigerant duct substantially in a coiled condition being disposed in said duct accommodating groove; and a lid, having one side movably coupled to one side of said container, and covering said duct accommodating groove

when said lid being covered onto said container, and said lid comprising an opening at the bottom of said lid.

9. The refrigerant filler casing structure of claim 8, wherein said container at its bottom comprises at least two threaded  
5 holes and said body of said refrigerant filler comprises two through holes for passing two screw members through said through holes of said main body and latching into said threaded holes to secure said refrigerant filler into said main body accommodating groove.
- 10 10. The refrigerant filler casing structure of claim 8, wherein said container comprises a handle disposed on the outer side adjacent to said pressure gauge accommodating groove and said main body accommodating groove.
11. The refrigerant filler casing structure of claim 8, wherein  
15 said container at its top comprises a groove opening for passing a hanging hook of said refrigerant filler.
12. The refrigerant filler casing structure of claim 8, wherein said container comprises a closed panel disposed on the surface corresponding to said duct accommodating groove.

20